# THE CHANGING ROLE OF THE BUSINESS ANALYST IN AN AGILE WORLD

What do we do now?

#### WHAT WE USED TO DO ....



#### TRADITIONAL REQUIREMENTS

- Reams of paper
- Detailed requirements documented upfront
- Documentation of so many requirements that they had to be identified as mandatory or desirable

#### TRADITIONAL VS. AGILE

- Customers know what they want; can provide specific deliverables.
- Scope creep causes delays, \$
   overruns or deleted
   functionality.
- A single "stakeholder", hands down the product details.
- Fails to recognize the inherent uncertainty and risks in any software development process.
- Limited BA role; basically entails requirements elicitation / documentation only.
- Projects can run ad nauseam

- Elicitation of a much smaller subset of functionality; what can be delivered in a Sprint
- Use of "stories" and use cases to explain
- Use of collaborative methods to understand specs
- Works closely with product owner, SE, QA and PM
- Uses backlog for product features; allows for quick analysis of features that can be implemented in a timeframe.
- Must understand the "enterprise view" of the project

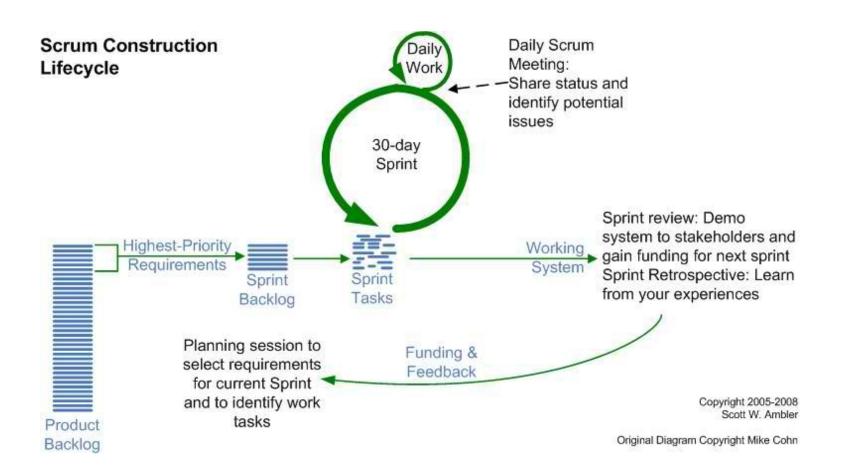
#### TRADITIONAL REQUIREMENT

 System shall provide the capability for a self service portal for a variety of student services.

#### THE AGILE TEAM OBJECTIVE

 During construction iterations the team incrementally delivers high-quality working software which meets the changing needs of the stakeholders.

#### AGILE SPRINT LIFE CYCLE



#### WHAT WE DO NOW ....

- Initial Requirements Envisioning or Enterprise Analysis
  - Define Stakeholders
  - Define the scope and objectives
  - Define constraints and assumptions
  - Define high level features for the initial project backlog
    - Identify Epics and Themes
  - Provide input into initial conceptual design

#### MORE OF WHAT WE DO NOW ....

#### Epic

"Provide Student Services"

#### Theme

Provide on line Student Services

#### WHAT WE DO NOW ...

- Agile Requirements
  - Less detail upfront details are derived during requirements specification for the target sprint
  - Focus on basic or mandatory requirements that will allow the team to provide a working result to the customer
  - By providing a faster result the requirements can be fine tuned and mapped better to the customer processes
- Agile Requirement Tools
  - User Stories
  - Use Cases
  - Agile Models

User Stories
Use Cases
Agile Models

#### BATRANSITION

- Executable Requirements Over Static
   Documentation
- Effectively Implement Requirements, Not Document Them

#### AGILE "STUDENT SERVICES THEMES"...

- Students can purchase monthly parking passes online.
  - Parking passes can be paid via credit cards.
  - Parking passes can be paid via PayPal ™.
- Professors can input student marks.
- Students can obtain their current seminar schedule.
- Students can order official transcripts.
- Students can only enroll in seminars for which they have prerequisites.
- Transcripts will be available online via a standard browser.

#### A STORY IS...

"One of the primary development artifacts for Agile project teams"

#### A STORY SS IS

#### Collaborative Effort

- Stakeholder participation is critical to user story development,
- Provides enough detail to define what value is to be delivered to the customer
- Contains just enough information "Just in Time" so that the developers can produce a reasonable estimate of the effort to implement it

#### A STORY IS NOT....

"Full-blown, traditional, specifications" process

#### AN AGILE «STORY»...

 Is a high-level description of how the system will behave; a conduit for conversation and is fully fleshed out as it becomes part of each iteration cycle of development

#### AN AGILE «STORY»...

- Stories are independent of other stories but can be combined in an iteration
- They are typically negotiable; not explicitly detailed but there may be functional or technical restraints that prevent negotiation

#### AN AGILE "STORY"

- Are small enough for iteration completion
- Are testable and acceptable to the customer
- Redefines definition of done

#### AN AGILE «STORY»...

 Contains just enough detailed information so that the developers can produce a reasonable estimate of effort to implement it.

 Shows what value is to be delivered to the customer

#### TRADITIONAL REQUIREMENT

 System shall provide the capability for a self service portal for a variety of student services.

#### USER STORY CARD

#### Front of Card

	173
As a student 1	want to purchase
a parking pass	So that I can
drive to school	
Priority: Man Should Estimate: 4	
tstinale: 4	

#### USER STORY DETAILS

#### Back of Card

Confirmations!

The student must pay the cornet anot One pass for one month is issued at a time. The student will not receive a pass of the payment isn't sufficient.

The person buying the pass must be a cornective enrolled student.

The student my only buy one pass per month.

#### AN AGILE USE CASE

- A use case describes how a specific actor will interact with the system to perform a specific action or process.
  - defines a sequence of actions performed by the actor that provides a measurable value for the actor.
  - defines business rules and alternative actions

#### USE CASE

Pre-Condition: Student has access to Student Services Portal

**Action:** Purchase Parking Permit

**Basic Course of Action:** 

- •Student inputs her name and student number
- •System verifies the student is an eligible registered student. If not eligible, then the student is informed and use case ends.
- •System displays Parking Permits option (1 months).
- •Student chooses a Parking Permit option
- •System calculates and displays fees
- •Student verifies the cost and either indicates acceptance. If not, the student is informed and use case ends.
- •System acknowledges acceptance and requires form of payment.
- •The student provides a method of payment that can cover the cost. If not, the transaction is canceled, use case ends.

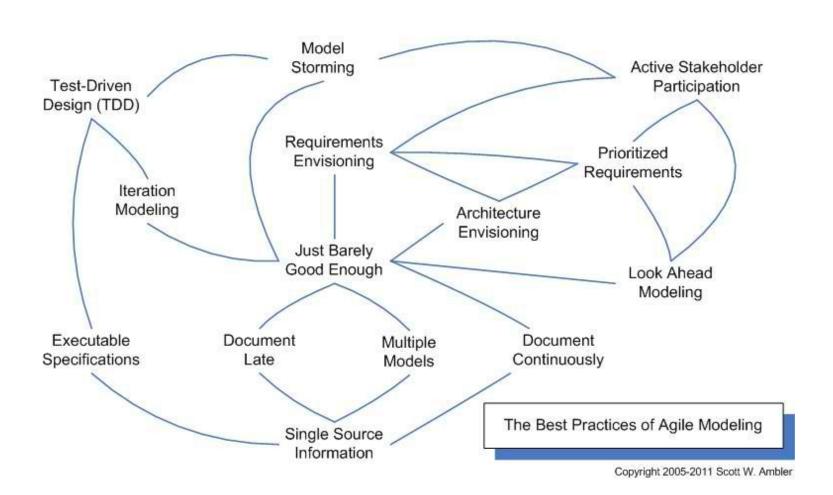
#### **Post Condition:**

- •The system prints student parking permit
- •If selected, the system prints student receipt.

#### AGILE MODELING

- The keys to modeling success are to have effective communication between all project stakeholders
- Active stakeholder participation is critical to the success of modeling efforts because the project stakeholders know what they want and can provide you with the feedback that you require.
- Strive to develop the simplest solution possible that meets all needs
- Obtain feedback regarding your efforts often and early

#### AGILE MODELING



## THE AGILE BA: A TRANSFORMATION

We are now expected to:

- ✓ Be an ongoing, integral part of the entire Agile team
- ✓ Facilitate and collaborate

### BA - INTEGRAL PART OF THE AGILE TEAM

- The BA is included in each construction iteration to collaborate and assist with the implementation of the requirements
- In many cases, BA may act on be half of the Product Owner

#### FACILITATE AND COLLABORATE

• Collaborating closely with both our stakeholders and with Agile team. We do this to reduce risk through tightening the feedback cycle and by improving communication via closer collaboration.



## AN AGILE BA'S WORLD HAS CHANGED

Are you up to the trip?

#### **QUESTIONS?**

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